

Amendment
Application No. 10/501,774
Attorney Docket No. 042593

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

1. (Currently Amended): A temperature compensated oscillator, comprising:
 - an oscillation circuit whose oscillation frequency varies with a temperature change;
 - an output line for outputting a signal based on an oscillation output of said oscillation circuit;
 - a temperature detection circuit for detecting a temperature state near said oscillation circuit; and
 - a temperature compensation circuit for keeping a frequency of the signal outputted to said output line substantially constant based on an output from said temperature detection circuit[[],]; and

~~wherein a selection means is provided which selects for selecting whether to enable or disable a temperature compensation function of said temperature compensation circuit;~~

wherein said oscillation circuit has an oscillation capacitor; and

said selection means has a selection circuit for allowing said temperature compensation circuit to vary a capacitance value of said oscillation capacitor depending on a temperature detected by said temperature detection circuit when enabling said temperature compensation function, and for fixing the capacitance value of said oscillation capacitor to a predetermined constant capacitance value independent of the temperature when disabling said temperature compensation function.

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2. (Previously Presented): The temperature compensated oscillator according to claim 1, further comprising:

a variable frequency division circuit between said oscillation circuit and said output line, wherein said selection means has means for allowing said temperature compensation circuit to vary a frequency division ratio of said variable frequency division circuit depending on a temperature detected by said temperature detection circuit when enabling the temperature compensation function of said temperature compensation circuit, and fixing the frequency division ratio of said variable frequency division circuit to a predetermined value when disabling the temperature compensation function.

3. (Cancelled)

4. (Currently Amended): The temperature compensated oscillator according to claim [[3]] 1,

wherein said oscillation capacitor includes a variable capacitor which varies in capacitance value in accordance with a voltage applied thereto, and said temperature compensation circuit has means for changing the voltage applied to the variable capacitor to change the capacitance value of said oscillation capacitor.

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5. (Currently Amended): The temperature compensated oscillator according to claim

[[3]] 1,

wherein said oscillation capacitor includes a plurality of fixed capacitors, and said temperature compensation circuit has means for changing connection states of the plurality of fixed capacitors to change the capacitance value of said oscillation capacitor.

6. (Currently Amended): The temperature compensated oscillator according to claim 4,

wherein said selection means has means for fixing the voltage applied to the variable capacitor to a predetermined value when fixing the capacitance value of said oscillation capacitor to the predetermined constant capacitance value.

7. (Currently Amended): The temperature compensated oscillator according to claim 4,

wherein said selection means has means for separating the variable capacitor so that the variable capacitor is not included in said oscillation capacitor when fixing the capacitance value of said oscillation capacitor to the predetermined constant capacitance value.

8. (Cancelled).

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9. (Previously Presented): The temperature compensated oscillator according to claim 1, further comprising:

a compensation data storage circuit which stores temperature compensation data of said temperature compensation circuit.

10. (Previously Presented): The temperature compensated oscillator according to claim 2, further comprising:

a selection information storage circuit which stores control information for controlling a selection state of said selection means; and

a compensation data storage circuit which stores temperature compensation data of said temperature compensation circuit,

wherein said selection information storage circuit and said compensation data storage circuit form an integrated storage circuit.

11. (Previously Presented): The temperature compensated oscillator according to claim 1, further comprising:

a control information input terminal for inputting from outside control information for controlling a selection state of said selection means.

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12. (Original): The temperature compensated oscillator according to claim 11,
wherein said control information input terminal is an external terminal provided on a
package constituting said temperature compensated oscillator.

13. (Cancelled).

14. (Currently Amended): The temperature compensated oscillator according to claim
[[3]] 1, wherein said selection circuit has a switch to enable said temperature compensation
function and a switch to disable said temperature compensation function.

15. (Currently Amended): The temperature compensated oscillator according to claim
14, wherein said switch to disable said temperature compensation function is means for fixing
the capacitance value of said oscillation capacitor to [[a]] the predetermined constant capacitance
value; and

a signal from said means for fixing said oscillation capacitor to the predetermined
capacitance value is inhibited from inputting when said switch to enable said temperature
compensation function is on, and a signal from said temperature compensation circuit to said
oscillation circuit is inhibited from inputting when said switch to disable said temperature
compensation function is on.

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16. (Currently Amended): The temperature compensated oscillator according to claim [[3]] 1, wherein said means for fixing said oscillation capacitor to the predetermined constant capacitance value is a constant voltage generation circuit.

17. (Currently Amended): The temperature compensated oscillator according to claim [[3]] 1, further comprising a selection information storage circuit,
wherein said selection means selects either to enable or disable the temperature compensation function of said temperature compensation circuit, based on the signal from said selection information storage circuit.

18. (Previously Presented): The temperature compensated oscillator according to claim 17, wherein said selection information storage circuit is composed of a memory with a plurality of bits of which pre-assigned combination enables the temperature compensation function of said temperature compensation circuit.

19. (Previously Presented): The temperature compensated oscillator according to claim 17, wherein said selection information storage circuit is composed of a conductive pattern and enables the temperature compensation function of said temperature compensation circuit caused by the conductive pattern being switched off.

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20. (Previously Presented): The temperature compensated oscillator according to claim 17, further comprising a compensation data storage circuit which stores temperature compensation data of said temperature compensation circuit,

wherein said selection information storage circuit and said compensation data storage circuit form an integrated storage circuit.

21-29. (Cancelled).